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Form 1445A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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 Sheet 1 of 12

PTO/SB/06a (08-08)

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
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Complete if Known

Application Number	10/669,162
Filing Date	September 22, 2003
First Named Inventor	Ronald R. Breaker, et al.
Art Unit	1635
Examiner Name	Zara, Jane J.
Attorney Docket Number	24519.6.8402

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
	JJ	AA*	US-4,868,116	09-19-1989	Morgan et al.	
		AB*	US-4,980,286	12-25-1990	Morgan et al.	
		AC*	US-5,563,037	10-08-1996	Sutherland et al.	
		AD*	US-3,687,808	08-29-1972	Merigan, Jr. et al.	
		AE*	US-4,845,205	07-04-1989	Huynh Dinh et al.	
		AF*	US-5,130,302	07-14-1992	Spielvogel et al.	
		AG*	US-5,134,066	07-28-1992	Rogers et al.	
		AH*	US-5,175,273	12-29-1992	Bischofberger et al.	
		AI*	US-5,367,066	11-22-1994	Urdea et al.	
		AJ*	US-5,432,272	07-11-1995	Benner et al.	
		AK*	US-5,457,187	10-10-1995	Gmeiner et al.	
		AL*	US-5,459,255	10-17-1995	Cook et al.	
		AM*	US-5,484,908	01-16-1996	Froehler et al.	
		AN*	US-5,502,177	03-26-1996	Matteucci et al.	
		AO*	US-5,525,711	06-11-1996	Hawkins et al.	
		AP*	US-5,552,540	09-03-1996	Haralambidis et al.	
		AQ*	US-5,587,469	12-24-1996	Cook et al.	
		AR*	US-5,594,121	01-14-1997	Froehler et al.	
		AS*	US-5,596,091	01-21-1997	Switzer	

FOREIGN PATENT DOCUMENTS

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Publication	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date	MM-DD-YYYY			
J/J	BA	EP-0070685-B1		01-26-1983			
↓	BB	WO-9002806		03-22-1990			
↓	BC	WO-8907136		08-10-1989			
↓	BD	WO-9717471		05-15-1997			
↓	BE	WO-9717076		05-15-1997			
↓	BF	WO-0427035		04-01-2004			

Examiner Signature	Jane Zara	Date Considered	05/18/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.86(e)(2)(ii)) because that application was filed after June 30, 2003 or is available in the IPW. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

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 Dated: April 22, 2009

 Signature: Leslie Maisano (Leslie Maisano)

PTO/SB/08a (08-08)

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/669,162
				Filing Date	September 22, 2003
				First Named Inventor	Ronald R. Breaker, et al.
				Art Unit	1635
				Examiner Name	Zara, Jane J.
Sheet	2	of	12	Attorney Docket Number	24519.6.8402

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/JZ/	AT*	US-5,614,617	03-25-1997	Cook et al.	
	AU*	US-5,681,941	10-28-1997	Cook et al.	
	AV*	US-4,981,957	01-01-1991	Lebleu et al.	
	AW*	US-5,118,800	06-02-1992	Smith et al.	
	AX*	US-5,319,080	06-07-1994	Leumann et al.	
	AY*	US-5,359,044	10-25-1994	Cook et al.	
	AZ*	US-5,393,878	02-28-1995	Leumann et al.	
	AA1*	US-5,446,137	08-29-1995	Maag et al.	
	AB1*	US-5,466,786	11-14-1995	Buhr et al.	
	AC1*	US-5,514,785	05-07-1996	Van Ness et al.	
	AD1*	US-5,519,134	05-21-1996	Acevedo et al.	
	AE1*	US-5,567,811	10-22-1996	Misiura et al.	
	AF1*	US-5,576,427	11-19-1996	Cook et al.	
	AG1*	US-5,591,722	01-07-1997	Montgomery et al.	
	AH1*	US-5,597,909	01-28-1997	Urdea et al.	
	AI1*	US-5,610,300	03-11-1997	Altmann et al.	
	AJ1*	US-5,627,053	05-06-1997	Usman et al.	
	AK1*	US-5,639,873	06-17-1997	Barascut et al.	
	AL1*	US-5,646,265	07-08-1997	McGee	

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JZ	CA	Benner et al., Modern metabolism as a palimpsest of the RNA world. PNAS, 86, 7054-7058 (1989)		
	CB	Berkner et al., Abundant expression of polyomavirus middle T antigen and dihydrofolate reductase in an adenovirus recombinant. J. Virology, 61: 1213-1220 (1987)		
	CC	Brown and Burlingham, Penetration of host cell membranes by adenovirus 2. J. Virology, 12: 386-396 (1973)		
	CD	Davidson et al., Overproduction of polyomavirus middle T antigen in mammalian cells through the use of an adenovirus vector. J. Virology, 61: 1226-1239 (1987)		
	CE	Gold et al., From oligonucleotide shapes to genomic SELEX: novel biological regulatory loops. PNAS, 94, 59-64 (1997)		
	CF	Gomez-Foix et al., Adenovirus mediated transfer of the muscle glycogen phosphorylase gene into hepatocytes confers altered regulation of glycogen metabolism. J. Biol. Chem., 267: 25129-25134 (1992)		
	CG	Guo et al., Direct fluorescence analysis of genetic polymorphisms by hybridization with oligonucleotide arrays on glass supports. Nucleic Acids Res., 22: 5456-5465 (1994)		
	CH	Guzman et al., Efficient gene transfer into myocardium by direct injection of adenovirus vectors. Circulation Research, 73: 1201-1207 (1993)		
	CI	Haj-Ahmad et al., Development of a helper-independent human adenovirus vector and its use in the transfer of the herpes simplex virus thymidine kinase gene. J. Virology, 57: 267-274 (1986)		
V	CJ	Jaeger et al., Improved predictions of secondary structures for RNA. PNAS, 86: 7706-7710 (1989)		

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/JZ	CK	Kiga, D., et al., An RNA aptamer to the xanthine/guanine base with a distinctive mode of purine recognition. Nucleic Acids Res. 26: 1755-1760 (1998)		
	CL	Lairins, L., et al., Osmotic control of kdp operon expression in Escherichia coli. PNAS, 78: 464-8 (1981)		
	CM	Langer et al., Enzymatic synthesis of biotin-labeled polynucleotides: novel nucleic acid affinity probes. PNAS, 78: 6633 (1981)		
	CN	Lusky, M.L., et al., Bovine papilloma virus contains an activator of gene expression at the distal end of the early transcription unit. Mol. Cell Bio., 3: 1108 (1983)		
	CO	Messie et al, Construction of a helper-free recombinant adenovirus that expresses polyomavirus large T antigen. Mol. Cell. Biol., 6: 2872-2883 (1986)		
	CP	Patte, J.C., Biosynthesis of lysine and threonine. In: Escherichia coli and Salmonella: Cellular and Molecular Biology, F.C. Neidhardt, et al., eds, Vol 1, pp 528-541 (1996)		
	CQ	Pearson and Lipman, Improved tools for biological sequence comparison. PNAS, 85: 2444 (1988)		
	CR	Pease et al., Light-generated oligonucleotide arrays for rapid DNA sequence analysis. PNAS, 91(11): 5022-5026 (1994)		
	CS	Ragot et al., Replication-defective recombinant adenovirus expressing the Epstein-Barr virus (EBV) envelope glycoprotein gp340/220 induces protective immunity against EBV-induced lymphomas in the cottontop tamarin. J. Gen. Virology, 74: 501-507 (1993)		
	CT	Rodionov, D.A., et al., Comparative genomics of thiamin biosynthesis in prokaryotes. New genes and regulatory mechanisms. Journal of Biological chemistry, 277: 48949 (2002)		

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/JZ/	CU	Roth, A., Breaker, R.R., Selection in vitro of allosteric ribozymes. In: Methods in Molecular Biology Series - Catalytic Nucleic Acid Protocols (Sioud, M, ed.) Humana, Totowa, NJ (2003)			
	CV	Seth et al., Role of a low-pH environment in adenovirus enhancement of the toxicity of a Pseudomonas exotoxin-epidermal growth factor conjugate. J. Virol., 51: 650-655 (1984)			
	CW	Seth et al., Evidence that the penton base of adenovirus is involved in potentiation of toxicity of Pseudomonas exotoxin conjugated to epidermal growth factor. Mol. Cell. Biol., 4: 1528-1533 (1984)			
	CX	Soukup, G.A., Breaker R.R., Allosteric Ribozymes. In: Ribozymes: biology and Biotechnology. R.K. Gaur and G. Krupp eds Eaton Publishing (2000)			
	CY	Svensson and Persson, Role of vesicles during adenovirus 2 internalization into HeLa cells. J. Virology, 55: 442-449 (1985)			
	CZ	Tatusov, R.L., et al., The COG database: new developments in phylogenetic classification of proteins from complete genomes. Nucleic Acids Res. 29: 22-28 (2001)			
	CA1	Usher and McHale, Hydrolytic stability of helical RNA: a selective advantage for the natural 3', 5'-bond. PNAS, 73: 1149-1153 (1976)			
	CB1	Varga et al., Infectious entry pathway of adenovirus type 2. J Virology, 65: 6061-6070 (1991)			
	CC1	Mandal et al. "A Glycine-Dependent Riboswitch That Uses Cooperative Binding to Control Gene Expression", Science 08 October 2004, Vol. 306, pages 275-279.			
✓	CD1	Vitreschak et al., "Riboswitches: the oldest mechanism for the regulation of gene expression?", Trends in Genetics, January 2004, Vol. 20, No. 1, pages 44-50.			

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/JZ	CE1	Tucker et al., "Riboswitches as versatile gene control elements", current Opinion in Structural Biology, 2005, Vol. 15, pages 342-348.		
	CH1	Winkler and Breaker, Genetic control by metabolite-binding riboswitches. Chem BioChem 4(10): 1024-32 (2003)		
	CI1	Nahvi et al., Genetic control by a metabolite binding mRNA. Chem Biol vol 9, page 1043 (2002)		
	CJ1	Winkler et al., Control of gene expression by a natural metabolite-responsive ribozyme. Nature 428(6980): 281-6 (2004)		
	CK1	Antson et al, The structure of trp RNA-binding attenuation protein. Nature vol 374, page 693 (1995)		
	CL1	Barrick et al., New RNA motifs suggest an expanded scope for riboswitches in bacterial genetic control. PNAS USA vol 101, page 6421 (2004)		
	CM1	Kikuchi, The glycine cleavage system: composition, reaction mechanism, and physiological significance. Mol Cell Biochem. Vol 1, page 169 (1973).		
	CN1	Duce et al., The glycine decarboxylase system: a fascinating complex. Trends Plant Sci vol 6, page 167 (2001)		
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/JZ/	CO1	Sudarsan et al., An mRNA structure in bacteria that controls gene expression by binding lysine. Genes Dev vol 17, page 2688 (2003).	
	CP1	Winkler et al., An mRNA structure that controls gene expression by binding S-adenosylmethionine. Nat Struct Biol vol 10, page 701 (2003).	
	CQ1	Mandal and Breaker, Adenine riboswitches and gene activation by disruption of a transcription terminator. Nature Struct Mol Biol vol 11, page 29 (2004).	
	CR1	Nahvi et al., Coenzyme B12 riboswitches are widespread genetic control elements in prokaryotes. Nucleic Acids Res, vol 32, page 143 (2004).	
	CS1	Yarnell and Roberts, Mechanism of intrinsic transcription termination and antitermination. Science vol 284, page 611 (1999).	
	CT1	Baugh, C., et al., 2.8 Å crystal structure of the malachite green aptamer. J. Mol. Biol. 301: 117-128 (2000)	
	CU1	Fan et al., Molecular recognition in the FMN-RNA aptamer complex. J. Mol. Biol. 258: 480-500 (1996)	
	CV1	Koizumi, M., et al., Allosteric selection of ribozymes that respond to the second messengers cGMP and cAMP. Nature Struct. Biol. 6: 1062-1071 (1999)	
	CW1	Serganov, A., et al., Structural basis for discriminative regulation of gene expression by adenine- and guanine-sensing mRNAs. Chem. Biol. 11: 1729-1741 (2004)	
V	CX1	Batey, R.T. et al., Structure of a natural guanine-responsive ribswitch complexed with the metabolite hypoxanthine. 18:432: 411-415 (2004)	

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/JZ/	CY1	Jenison et al. High resolution molecular discrimination by RNA. Science 263: 1425-1429 (1994)		
	CZ1	Morris et al., Distributed automated docking of flexible ligands to proteins: Parallel applications of Autodock 2.4. Journal of Computer Aided Molecular Design 10: 293-304 (1996)		
	CA2	Kubodera et al. Thiamine-regulated gene expression of Aspergillus oryzae thiA requires splicing of the intron containing a riboswitch-like domain in the 5'UTR. FEBS Lett 555: 516-520 (2003)		
	CB2	Matlin et al. Understanding alternative splicing: Towards a cellular code. Nature 6: 386-398 (2005)		
	CD2	Klein et al. Structural basis of blmS ribozyme activation by glucosamine-6-phosphate. Science 313: 1752-1756 (2006)		
	CE2	Blount et al. Development and application of a high-throughput assay for Glms riboswitch activators. RNA Biology 3(2): 77-81 (2006)		
↓	CF2	24519.6.8402 Prosecution History for application U.S. 11667153 up to 11.28.2007		
↓	CG2	24519.6.8402 Prosecution History for European application 03781294 up to 05.12.2008		

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